

The Android Field Book

The Android Field Book program was created by the Poland lab (Kansas State University). The program can be downloaded from:

http://www.wheatgenetics.org/bioinformatics/22-android-field-book.html



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Field Book



Field Book is one of the apps developed for the One Handheld Per Breeder initiative. Field Book is a simple app that can be used by researchers to easily take notes on field research plots. Other digital note-taking tools are often complex

spreadsheet applications that don't allow for fast and flexible data entry or are created for proprietary and expensive hardware which is inaccessible for many research groups.

Using open-source software and relatively inexpensive phone and tablet hardware, we have created a platform that will allow researchers to replace hard-copy field books, thus alleviating the possibility of transcription errors. Creating this system also allows useful and modern technology to be used in environments where cost and inflexibility have been limiting factors.







T3 and the Android Field Book

T3 provides a series of tools that interface with the Android Field Book (AFB) program:

- T3 tools can be used to generate
 - A field layout file
 - A phenotypic trait file

These two files are required to begin recording measurements using the AFB

Trial results recorded in the AFB can be uploaded directly to T3

T3 and the Android Field Book app

How to begin recording results using the AFB and T3:

- 1. Create a trial in T3 (or use an existing T3 trial)
- 2. Create a field layout for the T3 trial
- 3. Download a field layout from T3 in the AFB format
- 4. Download a file of T3 traits in the AFB format
- 5. Import the field layout and trait file to the AFB app
- 6. Begin recording results using your tablet



Tutorial 7: Outline

- 1. The "Manage Phenotype Trials" tool
 - 1. Creating and uploading a new T3 trial
 - 2. Creating a T3 field layout
 - 3. Uploading a T3 field layout to the T3/Oat Sandbox
- 2. Downloading AFB files from the T3/Oat Sandbox
- 3. Importing files to the AFB
- 4. Recording measurements in the AFB
- 5. Exporting trial results from the AFB
- 6. Uploading AFB trial results to the T3/Oat Sandbox
- 7. Submitting the AFB trial to T3/Oat

Section 1: The "Manage Phenotype Trials" tool

- Navigate to the T3/Oat homepage at https://triticeaetoolbox.org/oat/
- The "Manage Phenotype Trials" tool can be used to:
 - Create a new T3 trial
 - Create a field layout for a new or an existing T3 trial

Contact Us

T3/Oat

Home Select - Analyze - Download - Manage - About T3 -

Phenotype Trials

Quick Links

Login/Register

Current selections:

Lines: 0

Markers: All

Traits: 0

Phenotype Trials

Genotype Experiments

Quick search...

Welcome to T3/Oat!

Home: T3/Oat

T3/Oat is the repository of oat phenotype and genotype data for the Global Oat Genetics Database, a project initiated in January 2014 by

- · Gabe Gusmini (PepsiCo)
- · Joe Lutz (General Mills)
- Bruce Roskens (Grain Millers)
- · Nicholas Tinker (AAFC)
- Kay Simmons, Jack Okamuro, Jose Costa, Jean-Luc Jannink, and Gerard Lazo (USDA-ARS)

For more information see the Oat Global website.

Section 1.1: Creating and uploading a new T3 trial

It is necessary to provide trial information before a field layout can be generated using T3 tools. This trial information is not used by the AFB app.

To create a new T3 trial using the "Manage Phenotype Trials" tool:

- First select the set of lines in the trial using one of the line selection tools
- Then navigate to the Manage menu> Phenotype Trials

T3/Oat Download -Home Select -Analyze -Manage + About T3 -Phenotype Trials Home: T3/Oat **Quick Links** Login/Register

Welcome to T3/Oat!

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For more information see the Oat Global website.

Current selections:

Lines: 20

Markers: All

Traits: 0

Phenotype Trials

Genotype Experiments

Quick search...

Minetia Naue

Section 1.1: Creating and uploading a new T3 trial

	to view a trial, create a trial, or create an experimuploaded in the sandbox, downloaded to a tablet		in. submitted to the curator for loading into the production website.
Select existing t Create new trial			
	enerated by the <u>agricolae</u> package except for the ment design, select a design type from the drop-d		g. Design type which uses a custom R script.
Program:	select program	\$	Program responsible for data collection
Trial Name:			Format: "Experiment_YYYY_Location", where Experiment is short but descriptive, YYYY=Trial Year. Trial Names should be unique across T3 for a crop. A trial is carried out at one location in one year.
Year:	2015 😊		
Location:	select location		
Experiment Name:			Optional. The experiment is one hierarchical level above the trial. An experiment may have several trials with similar or identical entry lists
Latitude of field:	•		Decimal Degrees format, without a degree symbol, e.g. "47.824". There is a converter at http://boulter.com/gps/.
Longitude of field:	(2)		GPS coordinates can be found by address at http://itouchmap.com //atlong.html.
Collaborator:			Name of principal scientist.
Trial description:			
Planting date:			This should be the one date on which planting was begun. Use Excel "Text", not "Date", format. The value should be given as m/d/yyyy with no leading zeros, e.g. "5/7/2012".
Harvest date:			Use Excel "Text", not "Date", format. if the trial was not harvested, use the date of last data collection.
Begin weather date:			Optional, if T3 should store weather data starting at some point before planting (e.g., to track soil moisture status).
Greenhouse trial	○ No		
Seeding rate	*		This is the target density for the trial, not the actual rate for each line
Design type:	select design		
Irrigation	O No ○ Yes		
Other remarks			Optional. Adjustments to means in data analysis or other specifics of statistical analysis. Other notes that may help in interpretation of results, for example that harvest was delayed due to weather.
Create trial			

Manage Phenotype trials

To create a new T3 trial:

- 1. Select "Create new trial" at the top of the page
- 2. Fill out the form
 - Please contact the curator if you do not see the value that you require in a drop-down menu
- * If you select an experimental design then you can create and download a field layout at this stage (see section 1.2)
- 3. Click "Create trial"
- 4. Download the trial description
- 5. Upload the trial description to the T3/Oat Sandbox at https://t3sandbox.org/t3/sandbox/oat/

Section 1.1: Creating and uploading a new T3 trial

- The trial description file generated by the "Manage Phenotype Trials" tool is in the format required for upload to T3
- Alternatively, a trial description template (below) can be used to upload trial information for one or more trials, or to edit existing trial information
 - The template is available from the Data Submission page in the About T3 menu
- See T3 Tutorial 3 for help loading trial information to the T3/Oat Sandbox (https://t3sandbox.org/t3/sandbox/oat/)

					110		4/1/16	AS .							
	A	В	C	D	E	F	G	H		J	K	L	M	N	0
1	Trial Submission Form														
2	Template version	4Dec12				Not		h a avaan haal	caracinal ala	au tha rasu	ired fields	Doguisad fi	alde alea hay		
3	Crop	oat					neadings with	h a green bacl se notes	kground sn	ow the requ	uirea neias	. Kequirea 11	eius also nav	ve an	
4	Breeding Program Code	CDC-D				2300	nok () in the	ic notes.							
5		TRIAL #1	TRIAL #2			*Bre	eding Progra	m Code: Prog	ram respon	nsible for da	ta collectio	n. Codes ca	n be found u	under	
6	Trial Name	UEOPN_2015_Saskatoon	UEOPN_2014_Saskatoo	n				u> Contributi							
7	Trial Year	2015	2014					er the heading							
8	Experiment Name	Uniform Early Oat Perform	Uniform Early Oat Perform	mance No	ırsery			ided in the sai	me Trial Su	bmission do	ocument m	ust have the	same breed	ding	
9	Location	Saskatoon, SK-CAN	Saskatoon, SK-CAN				ram code.	nat is "Experir	ment VVVV	Location	Vou are fre	e to choose	an evnerim	ent	
10	Latitude of field	52.153467	52.146691					ild be short bu	_	_					
11	Longitude of field	-106.528719	-106.540644					her later in th							
12	Collaborator	Aaron D. Beattie	Aaron D. Beattie	·				rent calendar							
13	Trial description					spec	ific location o	f the trial, usu	ally a near	by settleme	nt. The tria	al name in its	s entirety sh	ould be	
14	Planting date	5/18/2015	5/17/2014			uniq									
15	Harvest date	9/21/2015	9/1/2014	·				n which the tr					o used to lim	ak triala	
16	Begin weather date							e: Experiment op down men							
17	Greenhouse trial? (yes or no)	no	no					ing experimen							
18	Seeding rate (seeds/m²)	254	254	·				as part of a tr					,		
19	Experimental design	RCBD	RCBD			*Loc	ation: Format	t for USA and	Canada is	<city town=""></city>	, <2 letter	state/provin	ce abbreviat	tion>	
20	Number of entries	24	23			follo	wed by "-CAN	l" or "-USA". F	ormat for	trials condu	cted in oth	er countries	is <city td="" tow<=""><td>/n>,</td><td></td></city>	/n>,	
21	Number of replications	3	3				intry>. itude and Lor	aitude of fiel	d: Decimal	degrees for	mat witho	ut a degree	symbol The	re is a	

Section 1.2: Creating a T3 field layout

		or create an experiment design	n. submitted to the curator for loading into the production website.
Select existing t Create new trial			
		ckage except for the Mod. Aug type from the drop-down list	. Design type which uses a custom R script.
Program:	select program	©	Program responsible for data collection
			Format: "Experiment_YYYY_Location", where Experiment is short but descriptive, YYYY=Trial Year.
Trial Name:			Trial Names should be unique across T3 for a crop. A trial is carried out at one location in one year.
Year:	2015 😊		
Location:	select location	0	
Experiment Name:			Optional. The experiment is one hierarchical level above the trial. An experiment may have several trials with similar or identical entry lists
Latitude of field:	•		Decimal Degrees format, without a degree symbol, e.g. "47.824". There is a converter at http://boulter.com/gps/.
Longitude of field:	•		GPS coordinates can be found by address at http://itouchmap.com /latlong.html.
Collaborator:			Name of principal scientist.
Trial description:			
Planting date:			This should be the one date on which planting was begun. Use Excel "Text", not "Date", format. The value should be given as m/d/yyyy with no leading zeros, e.g. "5/7/2012".
Harvest date:			Use Excel "Text", not "Date", format. if the trial was not harvested, use the date of last data collection.
Begin weather date:			Optional, if T3 should store weather data starting at some point before planting (e.g., to track soil moisture status).
Greenhouse trial	O No	○ Yes	
Seeding rate			This is the target density for the trial, not the actual rate for each line
Design type:	select design	②	
Irrigation	No	○ Yes	
Other remarks			Optional. Adjustments to means in data analysis or other specifics of statistical analysis. Other notes that may help in interpretation of results, for example that harvest was delayed due to weather.
Create trial			
Field layout		2	
Treatment:	30 lines selected	L	
Replications or Blo		greater than or equal to 2	
Create field layour	t		

Manage Phenotype trials

A field layout for a new T3 trial can be created at the same time as the trial description (see section 1.1) using the "Manage Phenotype Trials" tool.

- Select an experimental design
- Depending on the design selection you will be prompted to specify:
 - The number of replicates
 - The block size
 - The checks
- Click "Create field layout"
- 4. Download the field layout

The field layout for a new T3 trial will use the lines in the "current selections".

Section 1.2: Creating a T3 field layout

Manage Phenot	ype trials
	ow a trial, create a trial, or create an experiment design. ded in the sandbox, downloaded to a tablet device, or submitted to the curator for loading into the production website.
Select existing trial Create new trial	
o create an experiment of	design, select a design type from the drop-down list
Program:	AAFC Ottawa: data (OTW-D)
Trial Name:	UMOPN_2015_Ottawa
Year:	2015
Location:	Ottawa, ON-CAN
Experiment Name:	Uniform Midseason Oat Performance Nursery
Latitude of field:	
Longitude of field:	
Collaborator:	Weikai Yan
Trial description:	
Planting date:	2015-05-05
Greenhouse trial?	no
Seeding rate:	
Design type:	Random Complete Block 🕏
Irrigation:	
Other remarks:	The growing season was somewhat normal before heading and slightly drier than normal after the start of grain-filling. There was no lodging at all although the plant height was about normal. Stem breaking did occur after maturity for early varieties. The previous two crops were white clover and soybean, and the soil was clay-loam. N was applied pre-seeding at 25 lb per hectare; Buctril M was the herbicide sprayed at the 4-leaf stage. Crown rust was moderate with the really susceptible varieties heavily infested. Grain yield was originally recorded in bu/a and the original data is available in the supplementary raw data file. Test weight was originally recorded in lb/bu and the original data is available in the supplementary data file. Test weight was originally recorded in lb/bu and the original data is available in the supplementary raw data file.
Field layout	- F
Treatment:	30 lines selected
Replications or Blocks:	greater than or equal to 2
Create field layout	

To create a field layout for an existing T3 trial:

- 1. Choose "Select existing trial" at the top of the page
- 2. Select the breeding program responsible
- 3. Select the trial name
- 4. Choose an experimental design
- 5. Depending on the design selection you will be prompted to specify:
 - The number of replicates
 - The block size
 - The checks
- 6. Click "Create field layout"
- 7. Download the field layout

The field layout for an existing T3 trial will use the lines in the "current selections", unless the trial already has trial results stored in T3.

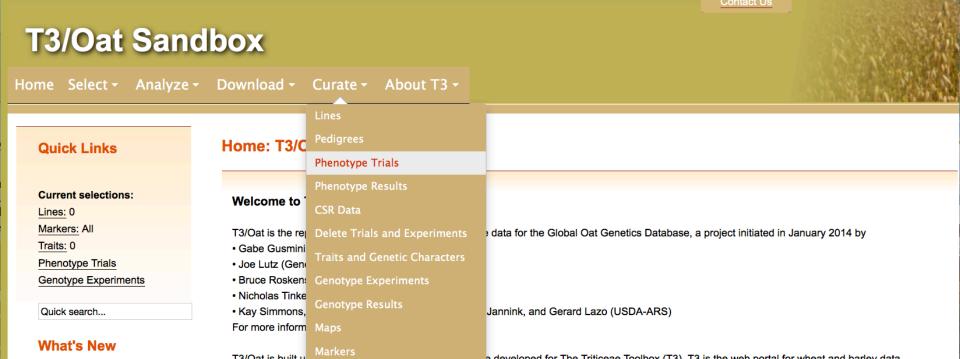
Section 1.2: Creating a T3 field layout

- The field layout file generated by the "Manage Phenotype Trials" tool is in the format required for upload to T3
 - This is not the same as the Android Field Book format
- Alternatively, the Fieldbook template (below) can be used to upload a field layout
 - The template is available from the Data Submission page in the About T3 menu
- It is necessary to supplement the information held in a field layout generated using the "Manage Phenotype Trials" tool before uploading it to T3
 - The "row" and "column" fields are required but are not filled in by the T3 tool
 - Please follow the instructions in the Fieldbook template if you wish to fill in the remaining optional fields

						LA S					PAD .					
	A	В	C	D	<u> </u>		G	H			K		M	N	0	P Q
1		trial	_	row	column	entry	replication	block	subblock	treatment	block_tmt	subblock_tmt	check	Field_ID	note	Mandatory fields are in
2		NUE_2012_MEAD	SETTLER_CL	1	1 1	302	1	L	1	1	LOW_N			1 MEAD12_1		trial (valid T3 trial name
3	2	NUE_2012_MEAD	TRIUMPH64	1	1 2	1	1	L	1	1	LOW_N			0 MEAD12_1		the field template. Ther
4	3	NUE_2012_MEAD	CHISHOLM	1	1 3	2	1	L	1	1	LOW_N			0 MEAD12_1		plot (numeric) [MANDA
5	4	NUE_2012_MEAD	CENTURY	1	1 4	3	1	L	1	1	LOW_N			0 MEAD12_1		separate rows. This mea
6	5	NUE_2012_MEAD	CUSTER	1	1 5	4	1	L	1	1	LOW_N			0 MEAD12_1		template file. The value
7	6	NUE_2012_MEAD	2174-05	1	1 6	5	1	L	1	1	LOW_N			0 MEAD12_1		row (numeric): One dim
8	7	NUE_2012_MEAD	INTRADA	1	1 7	6	1	L	1	1	LOW_N			0 MEAD12_1		spatial variation along t
9	8	NUE_2012_MEAD	OK101	1	1 8	7	1	L	1	1	LOW_N			0 MEAD12_1		of the planter while it is
10	9	NUE_2012_MEAD	OK102	1	1 9	8	1	L	1	1	LOW_N			0 MEAD12_1		column (numeric): The
11	10	NUE_2012_MEAD	ENDURANCE	1	1 10	9	1	L	1	1	LOW_N			0 MEAD12_1		control for spatial varia
12	11	NUE_2012_MEAD	DELIVER	1	1 11	10	1	L	1	1	LOW_N			0 MEAD12_1		movement of the plant
13	12	NUE_2012_MEAD	OK_BULLET	1	1 12	11	1	L	1	1	LOW_N			0 MEAD12_1		entry (numeric): entry r replication (numeric): If
14	13	NUE_2012_MEAD	CENTERFIELD	1	1 13	12	1	L	1	1	LOW_N			0 MEAD12_1		the trial are grouped to
15	14	NUE_2012_MEAD	GUYMON	1	1 14	13	1	L	1	1	LOW_N			0 MEAD12_1		block (numeric): If pres
16	15	NUE_2012_MEAD	DUSTER	1	1 15	14	1	L	1	1	LOW_N			0 MEAD12_1		seek to control for varia
17	16	NUE_2012_MEAD	JAGGER	1	1 16	301	1	L	1	1	LOW_N			1 MEAD12_1		subblock (numeric): If p
18	17	NUE_2012_MEAD	OK_RISING	1	1 17	15	1	L	1	1	LOW_N			0 MEAD12_1		trial are grouped togeth
19	18	NUE_2012_MEAD	OK02405	1	1 18	16	1		1	1	LOW_N			0 MEAD12_1		treatment (alphanume
20	19	NUE_2012_MEAD	PETE	1	1 19	17	1		1	1	LOW_N			0 MEAD12_1		might have different tre
21	20	NUE_2012_MEAD	BILLINGS	1	1 20	18	1		1	1	LOW_N			0 MEAD12_1		main_plot_tmt (alphan have the same level for
22	21	NUE_2012_MEAD	OK04505	1	1 21	19	1		1	1	LOW_N			0 MEAD12_1		blocks).
23	22	NUE_2012_MEAD	OK04525	1	1 22	20	1		1	1	LOW_N			0 MEAD12_1		subplot_tmt (alphanum
24	221	NUE_2012_MEAD	SETTLER_CL	1	1 23	302	1		1	11	LOW_N			1 MEAD12_1		check (0 or 1): 0 means

Section 1.3: Uploading a T3 field layout to the T3/Oat Sandbox

- Navigate to the T3/Oat Sandbox at https://t3sandbox.org/t3/sandbox/oat/
- The curation menu will appear once you register and login
- Choose the Curate menu> Phenotype Trials



Section 1.3: Uploading a T3 field layout to the T3/Oat Sandbox

The sandbox allows you to test load your template. The T3/Oat Sandbox reverts to an exact copy of T3/Oat overnight.

Add Field Layout File		
Required for loading plot-level	phenotype data.	
Field layout file: Browse	No file selected.	Example
Upload		

Browse for and upload the field layout file, created using either:

- The "Manage Phenotype Trials" tool
- The field layout template

Section 2: Downloading Android Field Book files from the T3/Oat Sandbox

- You should now have loaded a trial description and a field layout to the T3/Oat Sandbox
 - If you have not yet submitted these files to the production version of T3/Oat then the next step should be carried out in the T3/Oat Sandbox

Contact Us

Choose the Download menu> Android Field Book

What's New

T3/Oat Sandbox Home Select - Analyze -Download -Curate -About T3 -Genotype and Phenotype Data **SNP Alleles and Sequences Quick Links** Marker Annotation Android Field Book Current selections: Genetic Maps Lines: 0 Markers: All T3/Oat is the repository of oat phenotype and genotype data for the Global Oat Genetics Database, a project initiated in January 2014 by · Gabe Gusmini (PepsiCo) Traits: 0 Joe Lutz (General Mills) Phenotype Trials Bruce Roskens (Grain Millers) Genotype Experiments · Nicholas Tinker (AAFC) Kay Simmons, Jack Okamuro, Jose Costa, Jean-Luc Jannink, and Gerard Lazo (USDA-ARS) Quick search... For more information see the Oat Global website.

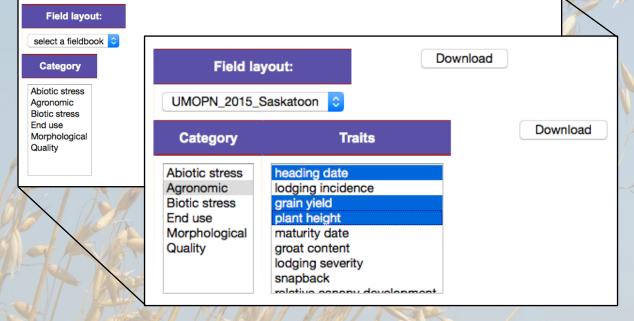
Section 2: Downloading Android Field Book files from the T3/Oat Sandbox

Download field layout and trait definition for Android Field Book

These tools provide a interface to the Android Field Book program created by the <u>Poland Lab</u>. Before using these tools it is necessary to import a field layout into the database. In the Field Book program the range is the first level division and refers to the row of the field. The second level division is the plot. All other columns are considered Extra Information. The program moves through the field row by row for measurements.

Create Field Layout and Trait File for import into the tablet

- 1. Select a field layout for your experiment. Download and save the file.
- 2. Select a category and one or more traits. Download and save the file.
- Connect your tablet to this computer.
- 4. Move the field layout file to the field import folder of the SD card of the tablet.
- 5. Move the trait file to the trait folder of the SD card of the tablet.
- 6. Import these files into the Field Book App.
- 7. Record measurements using the tablet.



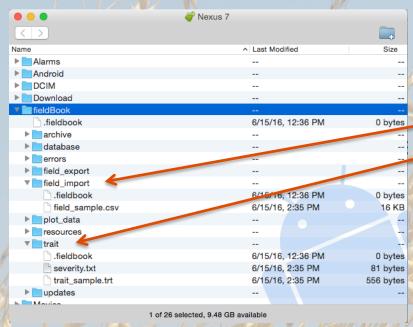
Select the required field layout from the drop-down menu.

To download T3 traits:

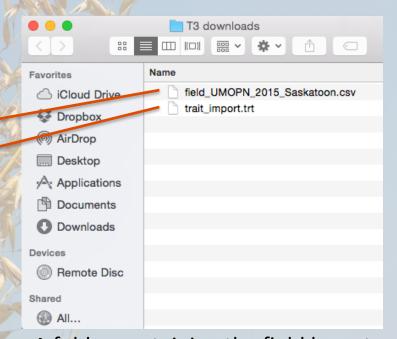
- 1. Choose a trait category
- Select one or more traits
 - Hold Ctrl (PC)or 第 (Mac)
- Click "Download"

Navigate to the About T3 menu> Trait Descriptions for more details about the traits available in T3/Oat.

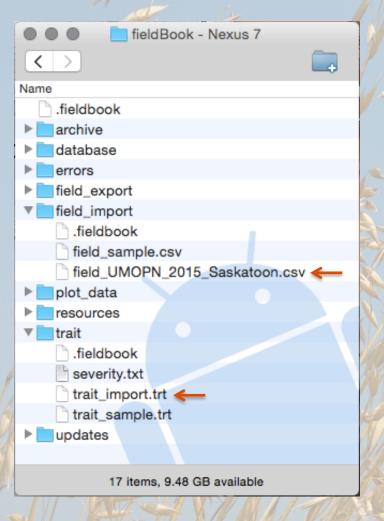
- Connect your tablet to your computer
- Move the two files downloaded from T3/Oat into the Android Field Book folder on your tablet



The Android File Transfer program for Mac (other methods of loading the files to the AFB are available)



A folder containing the field layout and the file of T3 traits downloaded from T3/Oat in sections 1 & 2 of this tutorial



- The field layout should be placed in the folder called "field_import"
- The file of T3 traits should be placed in the folder called "trait"

These two files enable you to begin recording results using the AFB app.



Fields

Traits

Profile

Export

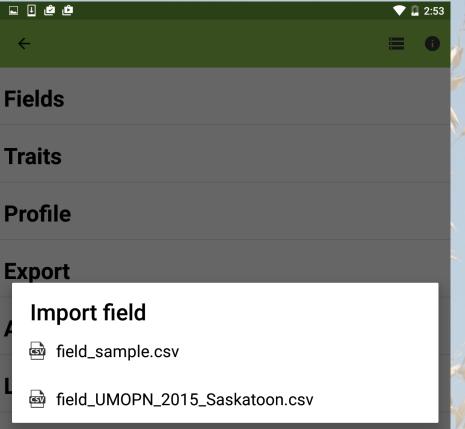
Advanced

Language

Section 3: Importing files to the Android Field Book

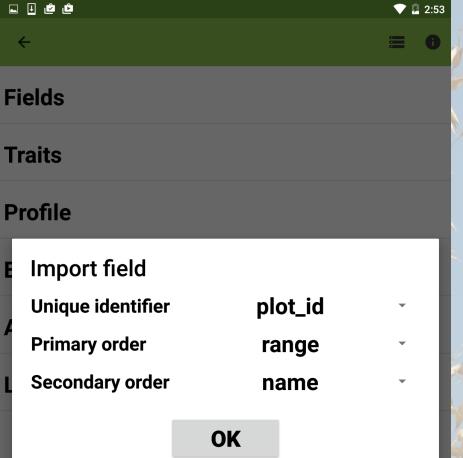
To begin using the AFB app you must first load the field layout and the trait file in the app

- Open the AFB app on your tablet
- Navigate to the settings menu

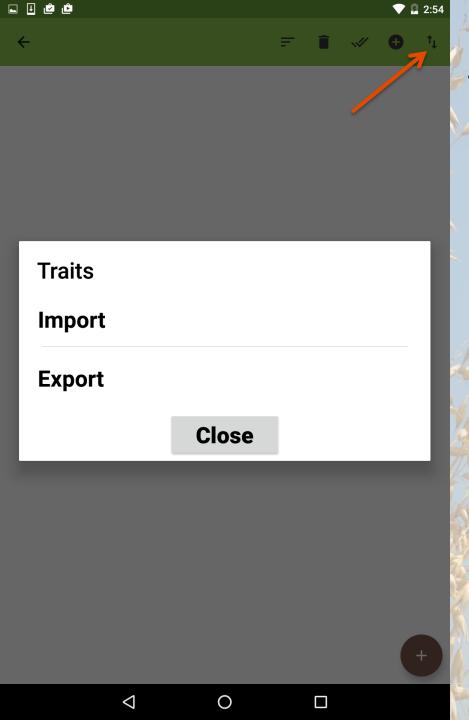


To load the field layout:

- Select "Fields" from the settings menu
- Select the relevant field layout file from the "Import field" window

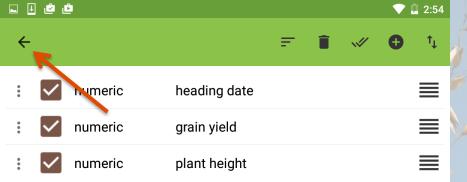


- Select the plot_id as the unique identifier
- Choose which fields to use for the primary and secondary order
- Click "OK"



To load the T3 traits:

- Select "Traits" from the settings menu
- Select the ↑ symbol in the top right corner of the traits screen
- Choose to "Import" traits
- Select the relevant T3 trait file when prompted



The traits from the T3 trait import file should now be displayed in the trait window of the AFB app

- Click the back arrow
 in the top left corner of the app to reach the settings menu again
- Select the back arrow
 again to reach the data entry
 screen





heading date



Julian calendar date of heading i.e. when half of the inflorescence has emerged (Zadoks growth stage: 55). Original data recorded as the number of days to heading has been converted using the supplied planting date, which can be found in the trial information. Original values can be found in the raw data file attached to each affected trial.



range: 19

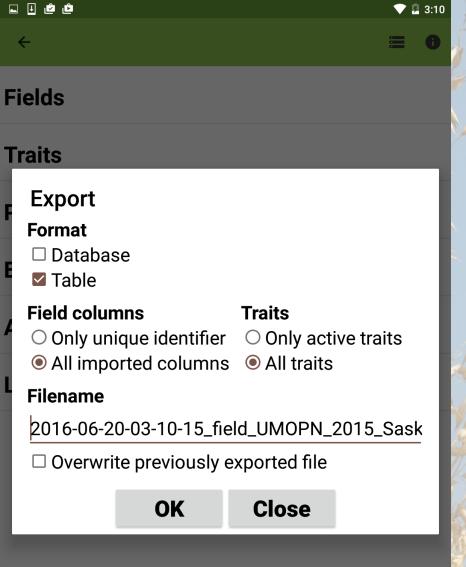
name: OGLE



	18	32	
:	1	2	3
+	4	5	6
•	7	8	9
	,	0	
*		U	Clear

Section 4: Recording measurements in the Android Field Book

- The small green arrows navigate between traits
- The large black arrows navigate through the plots
- Use the keypad to record measurements

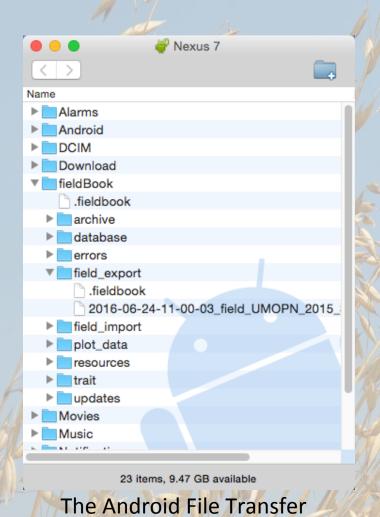


Section 5: Exporting trial results from the Android Field Book

- Navigate to the Settings menu
- Select "Export"
- Choose the "Table" format

Clicking "OK" will create a file that can be uploaded directly to T3.

Section 5: Exporting trial results from the Android Field Book



program for Mac

- Connect your tablet to your computer
- The exported results file will appear in the "field_export" folder within the AFB folder on your tablet
- Save the results file to your computer

The next step is to upload your results to the T3/Oat Sandbox.

Section 6: Uploading Android Field Book trial results to the T3/Oat Sandbox

 Navigate to the T3/Oat Sandbox at https://t3sandbox.org/t3/sandbox/oat/

What's Now

- The curation menu will appear once you register and login
- Choose the Curate menu> Phenotype Results

T3/Oat Sandbox Home Select -Analyze -Download -Curate -About T3 -Lines Pediarees Home: T3/C **Quick Links** Phenotype Trials Phenotype Results Current selections: Welcome to CSR Data Lines: 0 Markers: All T3/Oat is the rep Delete Trials and Experiments data for the Global Oat Genetics Database, a project initiated in January 2014 by Gabe Gusmini Traits: 0 Traits and Genetic Characters Joe Lutz (General Phenotype Trials Bruce Rosken: Genotype Experiments Nicholas Tinke Kay Simmons. Jannink, and Gerard Lazo (USDA-ARS) Quick search... For more inform Maps

Contact Us

Section 6: Uploading Android Field Book trial results to the T3/Oat Sandbox

•	T3 format Trial name, plot numbers, and values of one or more traits.
	Plot file: Browse No file selected. Example
	Upload
▲.	Android Field Book format
•	1. After completing data collection, export the data in table format.
	Export as "Table Format" and select the first 4 columns for export.
	Connect your tablet to this computer and move the file from the field_export folder.
	4. Browse to this file and select Upload.
	Plot file: Browse No file selected. Example
	Upload

Under the "Android Field Book format" heading, browse for and upload the plot-level results recorded using the AFB app.

Section 7: Submitting the Android Field Book trial to T3/Oat

You should be in possession of a:

- 1. Trial description file
- 2. Field layout file
- 3. Plot-level results file

The file of T3 traits does not need to be uploaded to T3.

The final step is to submit these three documents to the curator for upload to the T3/Oat database.



Section 7: Submitting the Android Field Book trial to T3/Oat

- Navigate to the Data Submission page from the About T3 menu
- Click the "Submit" button

Contact Us

T3/Oat Sandbox

Home Select → Analyze → Download → Curate → About T3 →

Quick Links

Current selections:

Lines: 0

Markers: All

Traits: 0

Phenotype Trials

Genotype Experiments

Quick search...

What's New

February 2016

Genetic Maps

Data Submission

Data templates are Excel, .txt, or .csv worksheets with column headers for the data T3 requires or accepts.

- The example values can be replaced with your own. Notes about the restrictions for valid data are included in the templates.
- Once populated, the files can be loaded into T3 using the Curate menu, which is available to registered Sandbox users.
- To make updates or corrections, edit your file and reload.
- Please use the <u>oat Sandbox</u> database for test-loading your files. When they're ready, click here to submit them to the T3 Curator for loading into the official database.

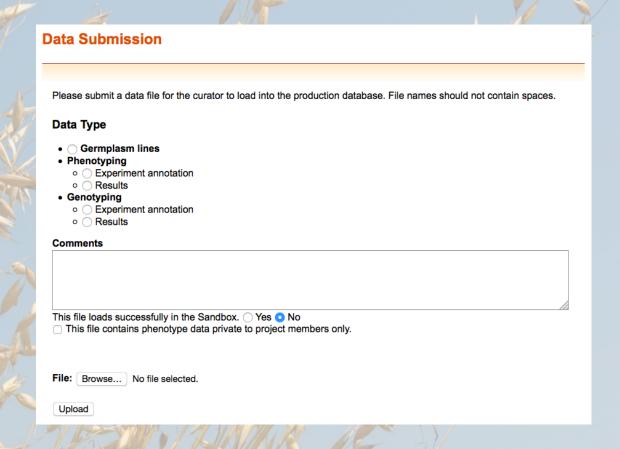
Submit

Instructions - Rules for filling in the templates, and sequence of submission

Tutorials

- Lesson One. Germplasm file creation and upload
- · Lesson Two. (.pdf) Phenotype trial descriptions and data
- · Lesson Three. Genotype trial descriptions and data
- Lesson Four. How to create germplasm line panels in T3

Section 7: Submitting the Android Field Book trial to T3/Oat



You can submit files that do not successfully upload to the T3/Oat Sandbox to receive help from the curator

Contact Us

Please contact us if you need help using T3/Oat

Contact Us

T3/Oat

Home Select → Analyze → Download → Manage → About T3 →

Quick Links

Login/Register

Current selections:

Lines: 0

Markers: All

Traits: 0

Phenotype Trials

Genotype Experiments

Quick search...

What's New

February 2016

Genetic Maps

An expanded oat consensus map (50,668 markers) is now <u>available</u> in addition to the Framework Oat Consensus Map (7,202 markers) and the 12 component maps used

Home: T3/Oat

Welcome to T3/Oat!

T3/Oat is the repository of oat phenotype and genotype data for the Global Oat Genetics Database, a project initiated in January 2014 by

- Gabe Gusmini (PepsiCo)
- Joe Lutz (General Mills)
- Bruce Roskens (Grain Millers)
- Nicholas Tinker (AAFC)
- Kay Simmons, Jack Okamuro, Jose Costa, Jean-Luc Jannink, and Gerard Lazo (USDA-ARS)

For more information see the Oat Global website.

T3/Oat is built using the database schema and software developed for The Triticeae Toolbox (T3). T3 is the web portal for wheat and barley data generated by the Triticeae Coordinated Agricultural Project (T-CAP), funded by the National Institute for Food and Agriculture (NIFA) of the US Department of Agriculture (USDA). More...

Participants: The templates and instructions for data submission are <u>here</u>. If your data are not totally public, please check the <u>Data Usage Policy</u>.

Data submission